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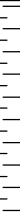

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CLIENT	DMR	LOGGED BY	ACS
PROJECT	IPSWICH MOTORWAY UPGRADE - WACOL TO DARRA	CHECKED BY	GWB
		DRILLED DATE	18-Jul-07 to 19-Jul-07
CONTRACTOR	Terratest	GROUND LEVEL	RL 25.85m
DRILL MODEL	Edson 3000	LOCATION	32604 E 150393 N
DRILLER	Brent Ormsby	ELEVATION DATUM	Australian Height Datum
		COORDINATE SYSTEM	Local Grid

DRILLING		STRATA			MATERIAL DESCRIPTION		CONDITION		OBSERVATION									
SAMPLE, TEST, BIT, SUPPORT, ETC.	R.L.	DEPTH	GROUP SYMBOL	LEGEND	SOIL TYPE Plasticity / Grain Size, Colour, Minor Components	WATER/ MOISTURE	CONSISTENCY										SOIL ORIGIN, STRUCTURE, ETC.	
	m	m					COHESIVE					NON COHESIVE						
							VS	SL	ST	VST	H	VL	J	MD	D	VD		
	25.82	0.03			ASPHALT.													FILL
	25.65	0.20	SP		Sandy GRAVEL fine to coarse grained, brown.		D											FILL
					SAND (SP) fine to medium grained, brown.													
				 0.60mm with quartz gravels fine to medium grained, subangular to subrounded, with a trace of clay													NONCO
		1																
	24.35	1.50	SC		Sandy CLAY (SC) stiff, fine to medium grained, light brown.													COHES
SPT at 1.8m N 8;14,19	24.25	1.60	CI CH		CLAY (CI-CH) very stiff, mottled red-brown grey, with sand fine grained. 1.70m - 1.95m with ironstained and quartz gravels fine grained. Ironstaining of the clay and ironstone lenses visible in SPT													COHES
		2																
	23.35	2.50	CL		Sandy CLAY (CL) hard, fine to coarse grained red-brown, with quartz gravels fine grained, sub-rounded to sub-angular.													COHES
		3																
SPT at 3.3m N 11;21,19	22.58	3.27	GP		Clayey GRAVEL (GP) dense, medium grained, grey-white.													NONCO
	22.40	3.45	GP		GRAVEL (GP) dense, fine to medium grained, grey-white.													SNDGRV
		4																
	21.35	4.50	CI		CLAY (CI) firm to stiff, grey-brown, with a trace of sand fine grained and silt.													COHES
SPT at 4.8m N 5;15,23	21.07	4.78	SP		SAND (SP) dense, very fine to fine grained, mottled brown grey.													NONCO
		5																
	19.95	5.90	SP		Clayey SAND (SP) medium dense, very fine to fine grained, grey mottled brown.													NONCO
SPT at 6.3m N 9;13,12	19.55	6.30	CI		Sandy CLAY (CI) very stiff, very fine to fine grained, grey mottled light brown, with a trace of silt.													COHES
		7																
	18.35	7.50	SW		SAND (SW) medium dense, fine grained, light brown.		W											NONCO
SPT at 7.8m N 5;19,13	18.04	7.81	CL		Sandy CLAY (CL) stiff, fine grained, grey.													COHES
		8																
	16.85	9.00	SW		SAND (SW) medium dense then dense, very fine to fine grained, grey, with clay.													NONCO

NOTES	Hole Diameter 100mm to 29.95m depth. (Solid Flight Augering to 9m. HW casing to 9.5m. HQ casing to 26.5m. Washboring with 100mm diameter tri-blade bit from 9m to 16.9m, 75mm diameter tri-blade bit from 26m to 29.5m. NMLC Coring from 16.9m to 26m. Groundwater below 9m.)	JOB	86015
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CLIENT	DMR	LOGGED BY	ACS
PROJECT	IPSWICH MOTORWAY UPGRADE - WACOL TO DARRA	CHECKED BY	GWG
		DRILLED DATE	18-Jul-07 to 19-Jul-07
CONTRACTOR	Terratest	ANGLE	Vertical
DRILL MODEL	Edson 3000	BEARING	-
DRILLER	Brent Ormsby	HOLE DIAMETER	100mm ()
		GROUND LEVEL	RL 25.85m
		LOCATION	32604 E 150393 N
		ELEVATION DATUM	Australian Height Datum
		COORDINATE SYSTEM	Local Grid

DRILLING		STRATA			MATERIAL DESCRIPTION		CONDITION		OBSERVATION								
SAMPLE, TEST, BIT, SUPPORT, ETC.	R.L.	DEPTH	GROUP SYMBOL	LEGEND	SOIL TYPE Plasticity / Grain Size, Colour, Minor Components	WATER / MOISTURE	CONSISTENCY								SOIL ORIGIN, STRUCTURE, ETC.		
	m	m					COHESIVE				NON COHESIVE						
							VS	SL	ST	VST	H	VL	J	MD		D	VD
SPT at 10.8m N 13;17,17		11	SW		SAND (SW) medium dense then dense, very fine to fine grained, grey, with clay. (continued) 10.80m - 10.95m increase in ironstaining and clay content												NONCO
SPT at 12.3m N 16;23,24		12		 12.00m - 12.26m with gravel fine to medium grained, sub-rounded to sub-angular, with a trace of clay 12.26m - 12.45m sand medium to coarse grained, grey, with clay												
		13															
SPT at 13.8m N 8;16,20	12.33	13.52	CH		CLAY (CH) grey-brown, with a trace of silt. 13.80mm possible Joint at 13.8m, 30 degrees, 3mm Fe, PL (low strength ironstone)												COHES
		14															
SPT at 15.3m N 7;19,27	10.85	15.00	CH		CLAY (CH) dark grey-brown. 16.80mm high strength ironstone band (20mm thick) fine grained angular, light brown 16.88mm high strength ironstone band (20mm thick) fine grained angular, red-brown Borehole continued as a Cored Drillhole												COHES
		16															
SPT at 16.78m N 11;55/250		17															
		18															
		19															

NOTES

Hole Diameter 100mm to 29.95m depth. (Solid Flight Augering to 9m. HW casing to 9.5m. HQ casing to 26.5m. Washboring with 100mm diameter tri-blade bit from 9m to 16.9m, 75mm diameter tri-blade bit from 26m to 29.5m. NMLC Coring from 16.9m to 26m. Groundwater below 9m.)

JOB

86015

PROJECT	IPSWICH MOTORWAY UPGRADE - WACOL TO DARRA
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LOGGED BY	ACS
CHECKED BY	GWB
DRILLED DATE	18-Jul-07 to 19-Jul-07

ANGLE	Vertical
BEARING	-
HOLE DIAMETER	100mm ()

GROUND LEVEL LOCATION	RL 25.85m 32604 E 150393 N
ELEVATION DATUM	Australian Height Datum
COORDINATE SYSTEM	Local Grid

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Log : 1.21 AUSTRALIA ROTARY CORE LOG (rev 22Jan08 checked AB/ACP Feb 2006)

Hole Diameter 100mm to 29.95m depth. (Solid Flight Augering to 9m. HW casing to 9.5m. HQ casing to 26.5m. Washboring with 100mm diameter tri-blade bit from 9m to 16.9m, 75mm diameter tri-blade bit from 26m to 29.5m. NMLC Coripa from 16.9m to 26m. Groundwater below 9m.)

86015

DMR

PROJECT	IPSWICH MOTORWAY UPGRADE - WACOL TO DARRA
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LOGGED BY	ACS
CHECKED BY	GWB
DRILLED DATE	18-Jul-07 to 19-Jul-07

ANGLE	Vertical
BEARING	-
HOLE DIAMETER	100mm ()

GROUND LEVEL LOCATION	RL 25.85m 32604 E 150393 N
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NOTES

End of Borehole at 29.95m
Hole Diameter 100mm to 29.95m depth. (Solid Flight Augering to 9m. HW casing to 9.5m. HQ casing to 26.5m.
Washboring with 100mm diameter tri-blade bit from 9m to 16.9m, 75mm diameter tri-blade bit from 26m to 29.5m.
NMLC Coring from 16.9m to 26m. Groundwater below 9m.)

86015

BOREHOLE PHOTOGRAPHS



PROJECT:	Ipswich Motorway and Centenary Highway Upgrade	CLIENT:	Department of Main Roads	PROJECT NUMBER:	86015
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Hole: BH 234



Depth: 16.9m - 22m



Depth: 22m - 26m